

AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

Claims 1-8 (Canceled)

9. (Currently Amended) A method of forming an inorganic macroporous material on a substrate exhibiting substantial periodicity, the method comprising the steps of:

providing a colloidal crystal template on a substrate comprising organic polymer particles;

introducing into the interstitial voids of the colloidal crystal template a noncolloidal inorganic diluted titanium precursor with anhydrous ethanol composition; and

~~forming a hardened composite organic-inorganic structure; and~~

removing the colloidal crystal template from the hardened composite organic-inorganic structure to form an inorganic macroporous material on a substrate.

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Currently Amended) The method of claim [[10]] 9 wherein the organic polymer particles comprises surfactant on the surface.

14. (Previously Presented) The method of claim 13 wherein the surfactant comprises sodium dodecyl sulfate.

15. (Previously Presented) The method of claim 13 wherein the surfactant fuses the organic polymer particles together.

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Currently Amended) The method of claim 9 wherein the step of introducing the diluted titanium noncolloidal inorganic precursor with anhydrous ethanol, into the interstitial voids of the colloidal crystal template comprises subjecting the diluted titanium noncolloidal inorganic precursor with anhydrous ethanol and the colloidal crystal template on a substrate to a gravitational force.

25. (Previously Presented) The method of 24 wherein the gravitational force is applied by centrifugation.

26. (Previously Presented) The method of claim 9 wherein the inorganic macroporous material exhibits a photonic stopgap.

27. (Currently Amended) The process of claim 9 wherein the substrate comprises glass, indium tin oxide coated glass, fluorine doped tin oxide coated glass [[,] silicon wafer, quartz, or mica .

28. (Canceled)

29. (Canceled)